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(Eds.)



Audio Signal Processing For Next-Generation Multimedia Communication Systems



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Yiteng (Arden) Huang, Jacob Benesty



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Handbook of Signal Processing in Acoustics David Havelock, Sonoko Kuwano, Michael Vorländer, 2008-10-26 The Handbook of Signal Processing in Acoustics brings together a wide range of perspectives from over 100 authors to reveal the interdisciplinary nature of the subject It brings the key issues from both acoustics and signal processing into perspective and is a unique resource for experts and practitioners alike to find new ideas and techniques within the diversity of signal processing in acoustics

Computer Vision in Control Systems-4 Margarita N. Favorskaya, Lakhmi C. Jain, 2017-10-25 The research book is a continuation of the authors previous works which are focused on recent advances in computer vision methodologies and technical solutions using conventional and intelligent paradigms The book gathers selected contributions addressing a number of real life applications including the identification of handwritten texts watermarking techniques simultaneous localization and mapping for mobile robots motion control systems for mobile robots analysis of indoor human activity facial image quality assessment android device controlling processing medical images clinical decision making and foot progression angle detection Given the tremendous interest among researchers in the development and applications of computer vision paradigms in the field of business engineering medicine security and aviation the book offers a timely guide for all PhD students professors researchers and software developers working in the areas of digital video processing and computer vision technologies

Digital Systems and Applications Vojin G. Oklobdzija, 2017-12-19 New design architectures in computer systems have surpassed industry expectations Limits which were once thought of as fundamental have now been broken Digital Systems and Applications details these innovations in

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Academic Press Library in Signal Processing, 2013-09-14 This fourth volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in Image Video Processing and Analysis Hardware Audio Acoustic and Speech Processing With this reference source you will Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in Image Video Processing and Analysis Hardware Audio Acoustic and Speech Processing Presents core principles and shows their application Reference content on core principles technologies algorithms and applications Comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge Edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic

Distant Speech Recognition Matthias Woelfel, John McDonough, 2009-04-20 A complete overview of distant automatic speech recognition The performance of conventional Automatic Speech Recognition ASR systems degrades dramatically as soon as the microphone is moved away from the mouth of the speaker This is due to a broad variety of effects such as background noise overlapping speech from other speakers and reverberation While traditional ASR systems underperform for speech captured with far field sensors there are a number of novel techniques within the recognition system as well as techniques developed in other areas of signal processing that can mitigate the deleterious effects of noise and reverberation as well as separating speech from overlapping speakers Distant Speech Recognition presents a contemporary and comprehensive description of both theoretic abstraction and practical issues inherent in the distant ASR problem Key Features Covers the entire topic of distant ASR and offers practical solutions to overcome the problems related to it Provides documentation and sample scripts to enable readers to construct state of the art distant speech recognition systems Gives relevant background information in acoustics and filter techniques Explains the

extraction and enhancement of classification relevant speech features Describes maximum likelihood as well as discriminative parameter estimation and maximum likelihood normalization techniques Discusses the use of multi microphone configurations for speaker tracking and channel combination Presents several applications of the methods and technologies described in this book Accompanying website with open source software and tools to construct state of the art distant speech recognition systems This reference will be an invaluable resource for researchers developers engineers and other professionals as well as advanced students in speech technology signal processing acoustics statistics and artificial intelligence fields

Speech Enhancement in the Karhunen-Loève Expansion Domain Jacob Benesty, Jingdong Chen, Yiteng Huang, 2011 This book is devoted to the study of the problem of speech enhancement whose objective is the recovery of a signal of interest i e speech from noisy observations Typically the recovery process is accomplished by passing the noisy observations through a linear filter or a linear transformation Since both the desired speech and undesired noise are filtered at the same time the most critical issue of speech enhancement resides in how to design a proper optimal filter that can fully take advantage of the difference between the speech and noise statistics to mitigate the noise effect as much as possible while maintaining the speech perception identical to its original form The optimal filters can be designed either in the time domain or in a transform space As the title indicates this book will focus on developing and analyzing optimal filters in the Karhunen Lo ve expansion KLE domain We begin by describing the basic problem of speech enhancement and the fundamental principles to solve it in the time domain We then explain how the problem can be equivalently formulated in the KLE domain Next we divide the general problem in the KLE domain into four groups depending on whether interframe and interband information is accounted for leading to four linear models for speech enhancement in the KLE domain For each model we introduce signal processing measures to quantify the performance of speech enhancement discuss the formation of different cost functions and address the optimization of these cost functions for the derivation of different optimal filters Both theoretical analysis and experiments will be provided to study the performance of these filters and the links between the KLE domain and time domain optimal filters will be examined Table of Contents Introduction Problem Formulation Optimal Filters in the Time Domain Linear Models for Signal Enhancement in the KLE Domain Optimal Filters in the KLE Domain with Model 1 Optimal Filters in the KLE Domain with Model 2 Optimal Filters in the KLE Domain with Model 3 Optimal Filters in the KLE Domain with Model 4 Experimental Study

The Computer Engineering Handbook Vojin G. Oklobdzija, 2019-07-05 After nearly six years as the field s leading reference the second edition of this award winning handbook reemerges with completely updated content and a brand new format The Computer Engineering Handbook Second Edition is now offered as a set of two carefully focused books that together encompass all aspects of the field In addition to complete updates throughout the book to reflect the latest issues in low power design embedded processors and new standards this edition includes a new section on computer memory and storage as well as several new chapters on such topics as semiconductor

memory circuits stream and wireless processors and nonvolatile memory technologies and applications *Speech Enhancement* Jacob Benesty, Shoji Makino, Jingdong Chen, 2006-03-30 We live in a noisy world In all applications telecommunications hands free communications recording human machine interfaces etc that require at least one microphone the signal of interest is usually contaminated by noise and reverberation As a result the microphone signal has to be cleaned with digital signal processing tools before it is played out transmitted or stored This book is about speech enhancement Different well known and state of the art methods for noise reduction with one or multiple microphones are discussed By speech enhancement we mean not only noise reduction but also dereverberation and separation of independent signals These topics are also covered in this book However the general emphasis is on noise reduction because of the large number of applications that can benefit from this technology The goal of this book is to provide a strong reference for researchers engineers and graduate students who are interested in the problem of signal and speech enhancement To do so we invited well known experts to contribute chapters covering the state of the art in this focused field

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